

METHOD AND APPARATUS FOR KIDNEY DIALYSIS

ABSTRACT OF THE DISCLOSURE

A number of improvements relating to methods and apparatuses for kidney
5 dialysis are disclosed. These include checking of dialysate bypass status using flow
measurement; using a flow sensor to confirm the absence of ultrafiltration during
bypass; automatic testing of ultrafiltration function by removal of a discrete volume
from a portion of the dialysate flow path coupled with a pressure test of that part of the
flow path; using a touch screen user interface; bar graph profile programming of
10 ultrafiltration, sodium, and bicarbonate parameters; using a RAM card to upload
treatment instructions to, and to download treatment data from, the machine; automatic
setting of proportioning mode (acetate or bicarbonate) based on connections of
concentrate lines; predicting dialysate conductivity values based on brand and
formulation of concentrates; minimizing no-flow dead time between dialysate pulses;
15 initiating operation in a timed mode from a machine power-off condition; preserving
machine mode during machine power-fail condition; calibration scheduling and
reminding; automatic level adjusting; and blood leak flow rate detecting.